

T. Bhatti

1/7/02

1627

DATE: 01/07/2002
TIME: 10:49:00

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/424,482B

DATE: 01/07/2001

Input Set : A:\264974be.app
Output Set: N:\CRF3\01072002\I424482B.raw

3 <110> APPLICANT: CHOO, YEN
4 KLUG, AARON
5 ISALAN, MARK
7 <120> TITLE OF INVENTION: NUCLEIC ACID BINDING POLYPEPTIDE LIBRARY
9 <130> FILE REFERENCE: 71278/264974/BET
11 <140> CURRENT APPLICATION NUMBER: 09/424,482B
12 <141> CURRENT FILING DATE: 2000-02-29
14 <150> PRIOR APPLICATION NUMBER: 09/424,482
15 <151> PRIOR FILING DATE: 1999-11-23
17 <150> PRIOR APPLICATION NUMBER: PCT/GB98/01510
18 <151> PRIOR FILING DATE: 1998-05-26
20 <150> PRIOR APPLICATION NUMBER: GB 9710809.6
21 <151> PRIOR FILING DATE: 1997-05-23
23 <160> NUMBER OF SEQ ID NOS: 114
25 <170> SOFTWARE: PatentIn version 2.1
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 9
29 <212> TYPE: DNA
30 <213> ORGANISM: Artificial Sequence
32 <220> FEATURE:
33 <223> OTHER INFORMATION: Description of Artificial Sequence: LIB-A DNA sorting
34 sequence
36 <220> FEATURE:
37 <221> NAME/KEY: modified_base
38 <222> LOCATION: (2)
39 <223> OTHER INFORMATION: a, t, c or g
41 <220> FEATURE:
42 <221> NAME/KEY: modified_base
43 <222> LOCATION: (3)..(4)
44 <223> OTHER INFORMATION: variable nucleotide
46 <400> SEQUENCE: 1
47 gnnncggcg 9
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51 <211> LENGTH: 9
52 <212> TYPE: DNA
53 <213> ORGANISM: Artificial Sequence
55 <220> FEATURE:
56 <223> OTHER INFORMATION: Description of Artificial Sequence: LIB-B DNA sorting
57 sequence
59 <220> FEATURE:
60 <221> NAME/KEY: modified_base
61 <222> LOCATION: (3)..(4)
62 <223> OTHER INFORMATION: variable nucleotide
64 <400> SEQUENCE: 2
65 gcnnncggcg 9
68 <210> SEQ ID NO: 3
69 <211> LENGTH: 9

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70 <212> TYPE: DNA
71 <213> ORGANISM: Artificial Sequence
73 <220> FEATURE:
74 <223> OTHER INFORMATION: Description of Artificial DNA: LIB 1/2 sorting
75 sequence
77 <220> FEATURE:
78 <221> NAME/KEY: modified_base
79 <222> LOCATION: (5)..(9)
80 <223> OTHER INFORMATION: Any given nucleotide
82 <400> SEQUENCE: 3
W--> 83 gcggnnnn 9
86 <210> SEQ ID NO: 4
87 <211> LENGTH: 31
88 <212> TYPE: PRT
89 <213> ORGANISM: Artificial Sequence
91 <220> FEATURE:
92 <223> OTHER INFORMATION: Description of Artificial Sequence: Zinc finger
94 <220> FEATURE:
95 <221> NAME/KEY: MOD_RES
96 <222> LOCATION: (1)..(2)
97 <223> OTHER INFORMATION: Any amino acid
99 <220> FEATURE:
100 <221> NAME/KEY: MOD_RES
101 <222> LOCATION: (4)..(8)
102 <223> OTHER INFORMATION: Any amino acid
104 <220> FEATURE:
105 <221> NAME/KEY: MOD_RES
106 <222> LOCATION: (10)..(23)
107 <223> OTHER INFORMATION: Any amino acid
109 <220> FEATURE:
110 <221> NAME/KEY: MOD_RES
111 <222> LOCATION: (25)..(30)
112 <223> OTHER INFORMATION: Any amino acid
114 <220> FEATURE:
115 <221> NAME/KEY: MOD_RES
116 <222> LOCATION: (31)
117 <223> OTHER INFORMATION: His or Cys
119 <220> FEATURE:
120 <223> OTHER INFORMATION: Positions 1-2 may vary in length from
121 0-2 residues
123 <220> FEATURE:
124 <223> OTHER INFORMATION: Positions 4-8 may vary in length from
125 1-5 residues
127 <220> FEATURE:
128 <223> OTHER INFORMATION: Positions 10-23 may vary in length from
129 9-14 residues
131 <220> FEATURE:
132 <223> OTHER INFORMATION: Positions 25-30 may vary in length from
133 3-6 residues

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135 <400> SEQUENCE: 4
W--> 136 Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa
137 1 5 10 15
W--> 139 Xaa Xaa Xaa Xaa Xaa Xaa His Xaa Xaa Xaa Xaa Xaa Xaa Xaa
140 20 25 30
143 <210> SEQ ID NO: 5
144 <211> LENGTH: 24
145 <212> TYPE: PRT
146 <213> ORGANISM: Artificial Sequence
148 <220> FEATURE:
149 <223> OTHER INFORMATION: Description of Artificial Sequence: Zinc finger
151 <220> FEATURE:
152 <221> NAME/KEY: MOD_RES
153 <222> LOCATION: (1)
154 <223> OTHER INFORMATION: Any amino acid
156 <220> FEATURE:
157 <221> NAME/KEY: MOD_RES
158 <222> LOCATION: (3)..(6)
159 <223> OTHER INFORMATION: Any amino acid
161 <220> FEATURE:
162 <221> NAME/KEY: MOD_RES
163 <222> LOCATION: (8)..(10)
164 <223> OTHER INFORMATION: Any amino acid
166 <220> FEATURE:
167 <221> NAME/KEY: MOD_RES
168 <222> LOCATION: (12)..(16)
169 <223> OTHER INFORMATION: Any amino acid
171 <220> FEATURE:
172 <221> NAME/KEY: MOD_RES
173 <222> LOCATION: (15)..(16)
174 <223> OTHER INFORMATION: Any amino acid
176 <220> FEATURE:
177 <221> NAME/KEY: MOD_RES
178 <222> LOCATION: (18)..(19)
179 <223> OTHER INFORMATION: Any amino acid
181 <220> FEATURE:
182 <221> NAME/KEY: MOD_RES
183 <222> LOCATION: (21)..(23)
184 <223> OTHER INFORMATION: Any amino acid
186 <220> FEATURE:
187 <223> OTHER INFORMATION: Positions 3-6 may vary in length from
188 2-4 residues
190 <220> FEATURE:
191 <223> OTHER INFORMATION: Positions 8-10 may vary in length from
192 2-3 residues
194 <400> SEQUENCE: 5
W--> 195 Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa
196 1 5 10 15
W--> 198 Leu Xaa Xaa His Xaa Xaa Xaa His

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Input Set : A:\264974be.app
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199 20
202 <210> SEQ ID NO: 6
203 <211> LENGTH: 4
204 <212> TYPE: PRT
205 <213> ORGANISM: Artificial Sequence
207 <220> FEATURE:
208 <223> OTHER INFORMATION: Description of Artificial Sequence: Linker
210 <400> SEQUENCE: 6
211 Thr Gly Glu Lys
212 1
215 <210> SEQ ID NO: 7
216 <211> LENGTH: 5
217 <212> TYPE: PRT
218 <213> ORGANISM: Artificial Sequence
220 <220> FEATURE:
221 <223> OTHER INFORMATION: Description of Artificial Sequence: Linker
223 <400> SEQUENCE: 7
224 Thr Gly Glu Lys Pro
225 1 5
228 <210> SEQ ID NO: 8
229 <211> LENGTH: 26
230 <212> TYPE: PRT
231 <213> ORGANISM: Artificial Sequence
233 <220> FEATURE:
234 <223> OTHER INFORMATION: Description of Artificial Sequence: Consensus
235 structure sequence
237 <400> SEQUENCE: 8
238 Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Lys Ser Asp
239 1 5 10 15
241 Leu Val Lys His Gln Arg Thr His Thr Gly
242 20 25
245 <210> SEQ ID NO: 9
246 <211> LENGTH: 29
247 <212> TYPE: PRT
248 <213> ORGANISM: Artificial Sequence
250 <220> FEATURE:
251 <223> OTHER INFORMATION: Description of Artificial Sequence: Consensus
252 structure sequence
254 <400> SEQUENCE: 9
255 Pro Tyr Lys Cys Ser Glu Cys Gly Lys Ala Phe Ser Gln Lys Ser Asn
256 1 5 10 15
258 Leu Thr Arg His Gln Arg Ile His Thr Gly Glu Lys Pro
259 20 25
262 <210> SEQ ID NO: 10
263 <211> LENGTH: 6
264 <212> TYPE: PRT
265 <213> ORGANISM: Artificial Sequence
267 <220> FEATURE:
268 <223> OTHER INFORMATION: Description of Artificial Sequence: Leader peptide

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Input Set : A:\264974be.app
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270 <400> SEQUENCE: 10
 271 Met Ala Glu Glu Lys Pro
 272 1 5
 275 <210> SEQ ID NO: 11
 276 <211> LENGTH: 9
 277 <212> TYPE: DNA
 278 <213> ORGANISM: Artificial Sequence
 280 <220> FEATURE:
 281 <223> OTHER INFORMATION: Description of Artificial DNA: LIB 2/3 DNA
 282 sorting sequence
 284 <220> FEATURE:
 285 <221> NAME/KEY: modified_base
 286 <222> LOCATION: (1)..(5)
 287 <223> OTHER INFORMATION: Any given nucleotide
 289 <400> SEQUENCE: 11
 W--> 290 nnnnnnggcg 9
 293 <210> SEQ ID NO: 12
 294 <211> LENGTH: 9
 295 <212> TYPE: DNA
 296 <213> ORGANISM: Artificial Sequence
 298 <220> FEATURE:
 299 <223> OTHER INFORMATION: Description of Artificial Sequence: Zinc finger -DNA
 300 interaction sequence
 302 <400> SEQUENCE: 12 9
 303 cgccccacgc
 306 <210> SEQ ID NO: 13
 307 <211> LENGTH: 9
 308 <212> TYPE: DNA
 309 <213> ORGANISM: Artificial Sequence
 311 <220> FEATURE:
 312 <223> OTHER INFORMATION: Description of Artificial Sequence: Zinc finger-DNA
 313 interaction sequence
 315 <400> SEQUENCE: 13
 316 acgccccacg 9
 319 <210> SEQ ID NO: 14
 320 <211> LENGTH: 9
 321 <212> TYPE: DNA
 322 <213> ORGANISM: Artificial Sequence
 324 <220> FEATURE:
 325 <223> OTHER INFORMATION: Description of Artificial Sequence: Zinc finger-DNA
 326 interaction sequence
 328 <400> SEQUENCE: 14
 329 gcgtggcgc 9
 332 <210> SEQ ID NO: 15
 333 <211> LENGTH: 9
 334 <212> TYPE: DNA
 335 <213> ORGANISM: Artificial Sequence
 337 <220> FEATURE:
 338 <223> OTHER INFORMATION: Description of Artificial Sequence: Zinc finger-DNA

Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY
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Input Set : A:\264974be.app
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L:47 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:65 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:83 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:347 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:433 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19